

(12) UK Patent Application (19) GB (11) 2 382 514 (13) A

(43) Date of A Publication 04.06.2003

(21) Application No 0128814.1

(22) Date of Filing 01.12.2001

(71) Applicant(s)
Alec Reginald Beresford
54 Parklands Avenue, LEAMINGTON SPA,
Warwickshire, CV32 7BE, United Kingdom

(72) Inventor(s)
Alec Reginald Beresford

(74) Agent and/or Address for Service
Urquhart-Dykes & Lord
Three Trinity Court, 21-27 Newport Road,
CARDIFF, CF24 0AA, United Kingdom

(51) INT CL⁷
A01G 9/12

(52) UK CL (Edition V)
A1E EAD EC4
B7B BTL2

(56) Documents Cited
GB 2336091 A **GB 2334419 A**
GB 2237964 A **GB 2219479 A**
GB 2118107 A **EP 0251439 A2**

(58) Field of Search
UK CL (Edition T) **A1E EAD EAKX, B7B BTL1 BTL2**
BTX2, E2A ACSG
INT CL⁷ **A01G 9/02 9/12, F16B 21/09**
Other: Online: **WPI, EPODOC, JAPIO**

(54) Abstract Title
Wheeled plant support assembly

(57) A plant-growing assembly comprises a flat base 10 to support a grow bag etc, the base being supported on ground-engaging wheels 12, and a support arrangement projecting upwards from the base at or adjacent its rear edge, for supporting plants as they grow. The support arrangement comprising horizontal lines 16 extending between upright posts 14, each line 16 having a fitting (18) at each of its ends in the form of an enlarged head which communicates with keyhole shaped recesses (15) in the upright posts 14.

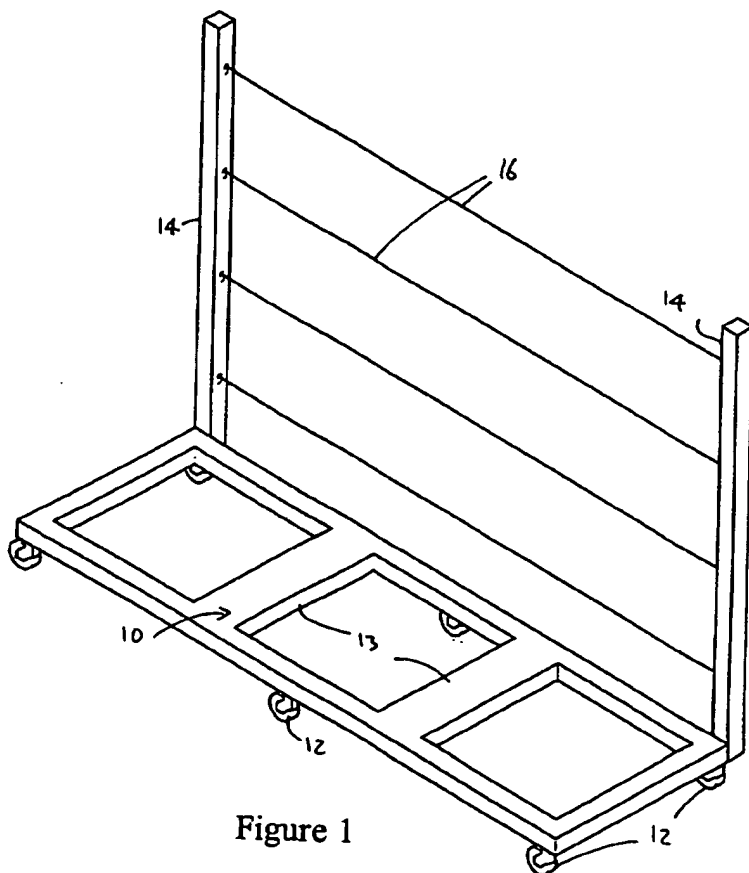


Figure 1

1/3

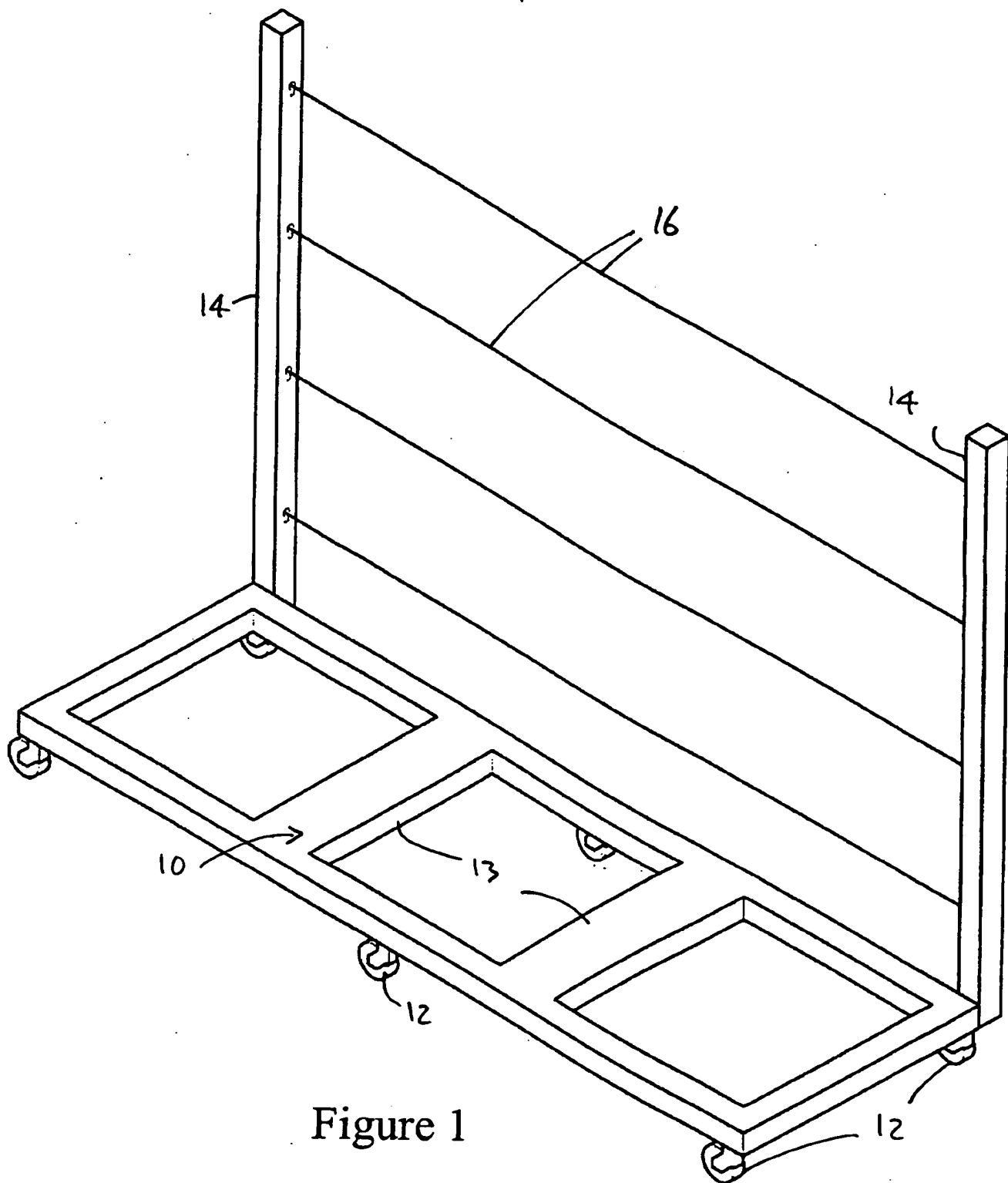
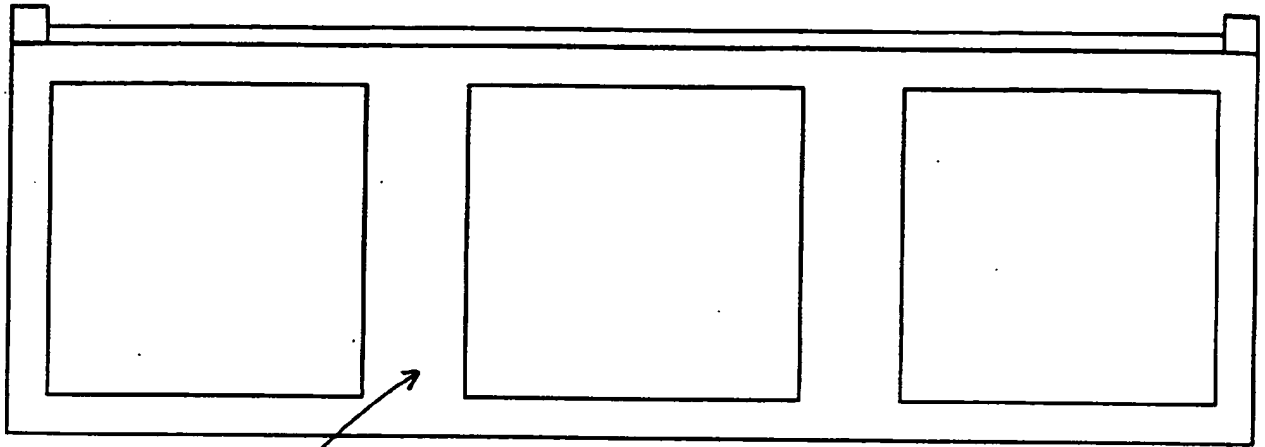


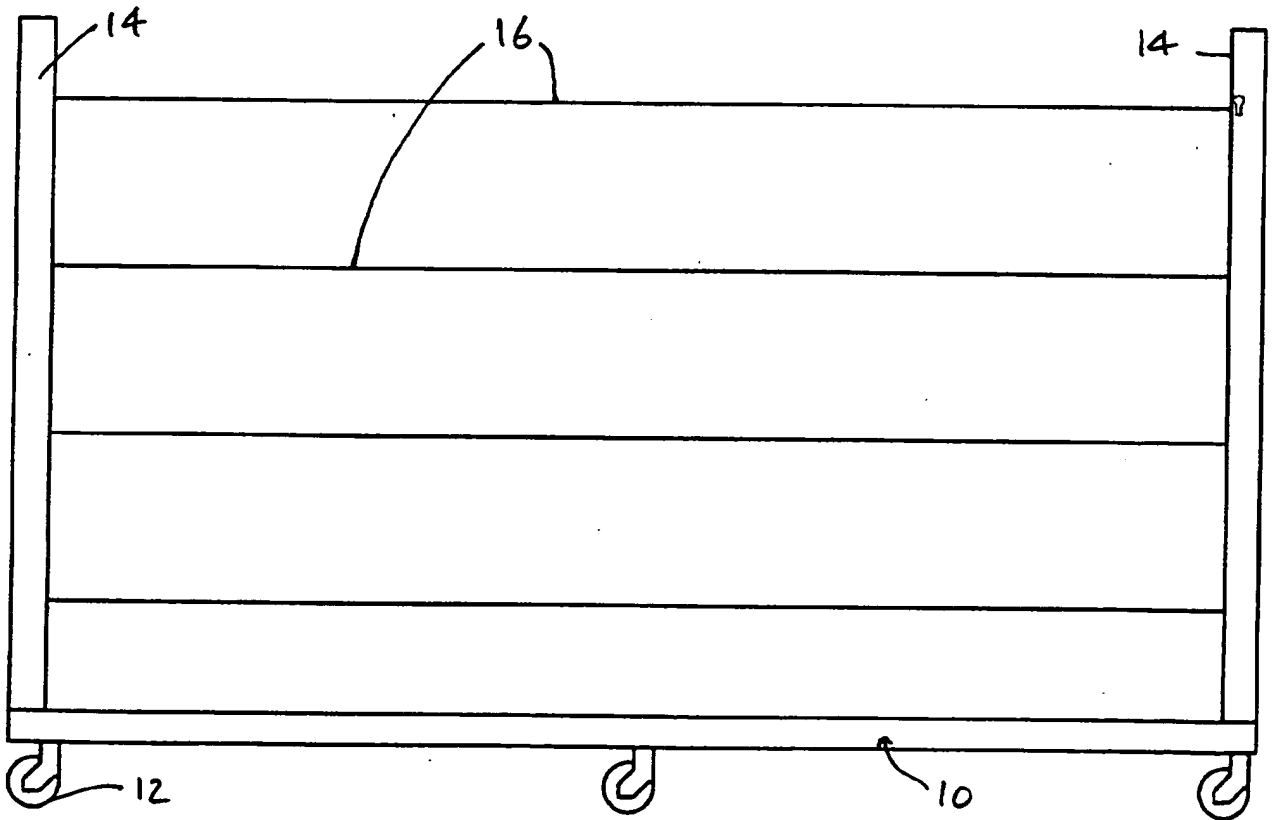
Figure 1

2/3



10

Figure 2



14

16

14

12

10

Figure 3

3/3

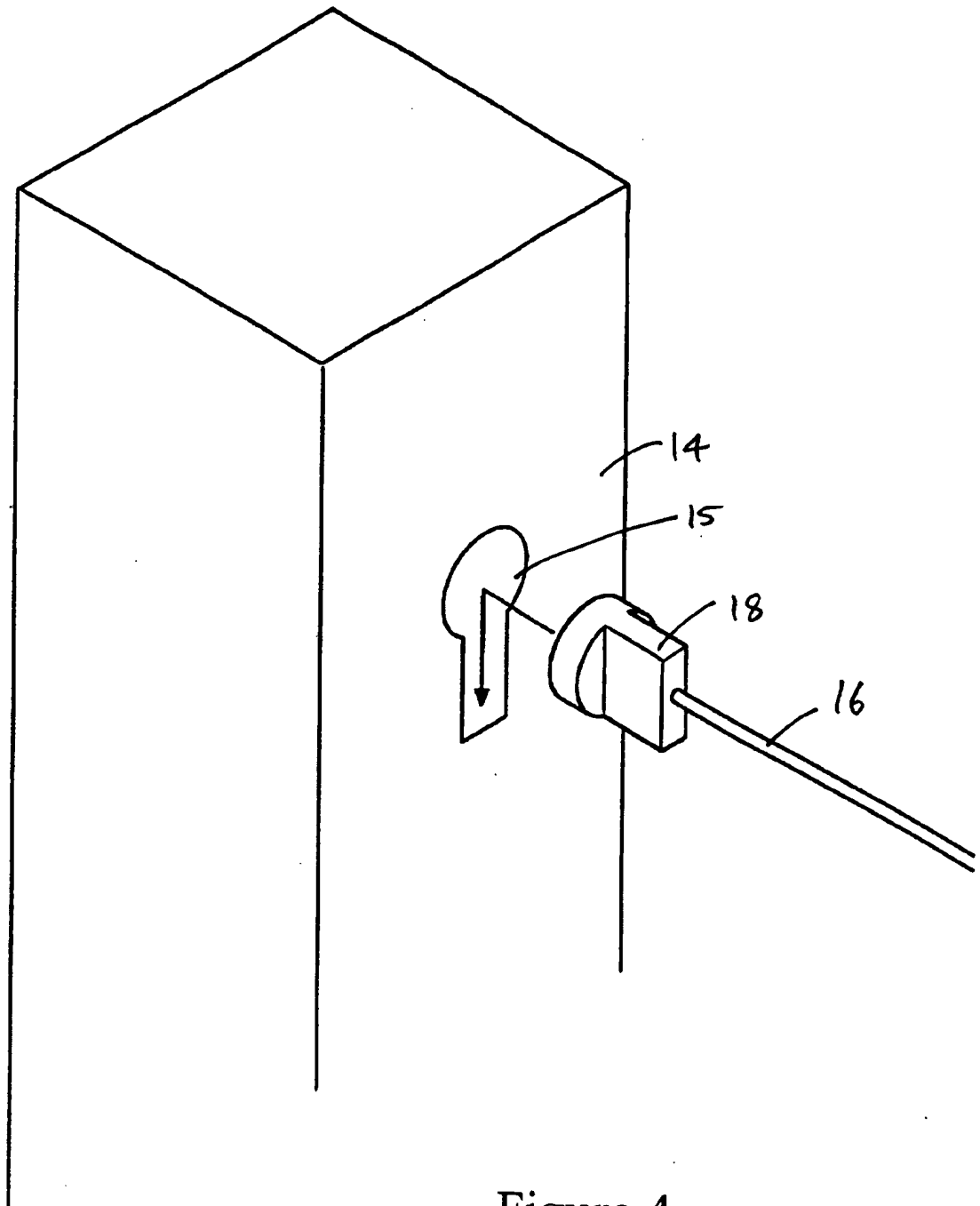


Figure 4

Plant-growing assembly

The present invention relates to an assembly on which to grow tomato or other plants, particularly from grow bags.

It has become popular to grow tomato and other plants from grow bags but the practice meets with varying degrees of success. Firstly, it is difficult to select an appropriate location, where the plant will be sure to catch sufficient sunlight for effective growth. Secondly, it is often complicated to provide effective support for the plants as they grow.

10 I have now devised an assembly on which tomato or other plants may be grown, which alleviates the above difficulties.

In accordance with the present invention, there is provided a plant-growing assembly which comprises a flat base supported on a set of ground-engaging wheels, and a supporting arrangement, projecting upwards from the base at or adjacent
15 its rear edge, for use in supporting plants as they grow.

In use, a grow bag is laid on the flat base of the assembly. The assembly is easy to move, when required, for the plants to catch the available sunlight. As the plants grow,
20 the supporting arrangement is used to support them.

Preferably the supporting arrangement for the plants comprises a number of horizontally-extending lines of wire, thread or other elongate flexible filament material. Preferably these lines extend between a pair of uprights which project
25 upwardly from the base at or adjacent its rear edge.

Preferably the horizontal lines are provided with fittings, at their opposite ends, which have enlarged heads for engagement in keyhole-shaped recesses or apertures in the respective uprights.

30 Preferably the base of the assembly comprises an open-frame structure, preferably comprising a generally rectangular frame having one or more cross-pieces intermediate its opposite ends.

An embodiment of the present invention will now be
35 described by way of example only and with reference to the accompanying drawings, in which:

FIGURE 1 is an isometric view of an assembly on which to grow tomatoes or other plants;

FIGURE 2 is a top plan view of the assembly shown in Figure 1;

5 FIGURE 3 is a front view of the assembly; and

FIGURE 4 is an enlarged view showing the arrangement for attaching each of the supporting lines to the uprights of the assembly.

Referring to Figure 1 to 3 of the drawings, there is
10 shown an assembly which is particularly useful for growing tomato plants from grow-bags. The assembly comprises a rectangular base 10 supported on six castors 12 (two at each end and two in the middle, at the front and rear). The base 10 is of an open-frame structure, in the form of a rectangular
15 frame having two cross-pieces 13.

The assembly further comprises a pair of uprights 14, projecting vertically upwards from the base 10 at the opposite ends of its rear edge. A number of supporting lines 16 extend horizontally between the two uprights 14, the lines 16 being
20 formed of nylon thread for example.

As shown in Figure 4, each line 16 has a fitting 18 attached to each of its opposite ends, the fitting 18 having an enlarged head. Each of the uprights 14 is formed, on its inwardly-facing side, with a series of keyhole-shaped recesses
25 or apertures 15, spaced apart along its length: each of the supporting lines 16 is mounted in position, tensioned between the two uprights 14, by engagement of its end fittings 18 into selected apertures 15 of the respective uprights.

In use, a grow bag is supported on the flat base 10 of
30 the assembly. As the plants grow, the supporting lines 16 are used to help support the plants. The assembly is easy to move when required, for the plants to catch the available sunlight.

In the example shown, the uprights 14 can be detached from the base 10, so that the assembly can be stored away in
35 a compact form.

Typically, the base 10 and uprights 14 may be made of plastics material or of wood.

Claims

1. A plant-growing assembly which comprises a flat base supported on a set of ground-engaging wheels, and a supporting arrangement, projecting upwards from the base at or adjacent
5 its rear edge, for use in supporting plants as they grow.
2. An assembly as claimed in claim 1, in which said supporting arrangement comprises a number of horizontally-extending lines which extend between a pair of uprights projecting upwardly from said base at or adjacent its rear
10 edge.
3. An assembly as claimed in claim 2, in which said horizontal lines are provided with fittings, at their opposite ends, which have enlarged heads for engagement in keyhole-shaped recesses or apertures in the respective uprights.
- 15 4. An assembly as claimed in any preceding claim, in which said base comprises an open-frame structure.
5. An assembly as claimed in claim 4, in which said base comprises a generally rectangular frame having one or more cross-pieces intermediate its opposite ends.
- 20 6. A plant-growing assembly substantially as herein described with reference to the accompanying drawings.



INVESTOR IN PEOPLE

Application No: GB 0128814.1
Claims searched: 1 to 5

Examiner: Nicola Keeley
Date of search: 16 October 2002

4

Patents Act 1977 Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.T): A1E (EAD, EAKX), B7B (BTL1, BTL2, BTX2), E2A (ACSG)

Int Cl (Ed.7): A01G 9/02, 9/12, F16B21/09

Other: Online: WPI, EPODOC, JAPIO

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X	GB 2336091 A (COBB) See especially figures and page 4 lines 10 to 19 and page 5 lines 10 and 11	1 to 3
X	GB 2334419 A (LONGBOTTOM) See especially figures and page 7 lines 15 to 25	1,2,4 and 5
Y	GB 2237964 A (EASILOK) See especially figures	1 to 5
Y	GB 2219479 A (NACEY) See especially figures	1 to 5
Y	GB 2118107 A (FA SCHNEIDER) See especially figures	1 to 5
Y	EP 0251439 A2 (REHRIG) See especially figures	1 to 5

X Document indicating lack of novelty or inventive step
Y Document indicating lack of inventive step if combined with one or more other documents of same category.

& Member of the same patent family

A Document indicating technological background and/or state of the art.
P Document published on or after the declared priority date but before the filing date of this invention.
E Patent document published on or after, but with priority date earlier than, the filing date of this application.